

L9 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1974:414192 CAPLUS  
 DN 81:14192  
 TI Fire-resistant polyester films  
 IN Shiozaki, Masahiro; Sakurai, Tsuneo; Saito, Hachiro; Kawamura, Junji;  
 Funahashi, Kazutoshi  
 PA Teijin Ltd.  
 SO Jpn. Kokai Tokkyo Koho, 6 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 NCL 25(5)K111; 48D8  
 CC 36-3 (Plastics Manufacture and Processing)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 48096666	A2	19731210	JP 1972-29473	19720324
PRAI	JP 1972-29473		19720324		

AB Poly(ethylene terephthalate) (I) [25038-59-9] or poly(ethylene 2,6-naphthalenedicarboxylate) [24968-11-4] films or moldings are coated with **poly(ester carbonate)** derived from 2,2',6,6'-tetrabromobisphenol A (II), terephthalic acid (III) or its deriv., and 25-100 mole% (based on III or its deriv.) p-chloroformyloxybenzoyl chloride (IV) and (or) m-chloroformyloxybenzoyl chloride to give fire resistant products. Thus, 271.95 g II in 1.8 l. CHCl<sub>2</sub>CHCl<sub>2</sub> at 0.deg. was mixed with 60.90 g terephthaloyl dichloride and 43.8 g IV, and to the clear mixt. 122 g Et<sub>3</sub>N was added for 30 min followed by stirring for 2 hr addnl. to give 335.0 g 4,4'-isopropylidenebis(2,6-dibromophenol)-terephthaloyl dichloride-p-chloroformyloxybenzoyl chloride copolymer (V) [51732-85-5] of intrinsic viscosity 1.22 (30.deg., CHCl<sub>2</sub>CHCl<sub>2</sub>). A 25-.mu. I film was coated with a mixt. of 200 g of the V and 890 g THF and dried to give a 35-.mu. film with O index 35 compared with 26 for I film.

ST fire resistance polyester film; polycarbonate polyester coating film; bromobisphenol A copolymer; terephthalate polyester; chloroformyloxybenzoyl chloride copolymer

IT Coating materials  
 (bromobisphenol-based polycarbonates, on polyester films, fire-resistant)

IT Fireproofing  
 (of polyester films, with tetrabromobisphenol-based polycarbonates)

IT **24968-11-4** 25038-59-9, uses and miscellaneous 25230-87-9  
 RL: USES (Uses)  
 (coatings on, fire-resistant)

IT 51732-85-5  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (coatings, on polyester films, fire-resistant)

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L9 ANSWER 28 OF 47 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1999:505806 CAPLUS  
 DN 131:117108  
 TI Polyester **polycarbonate** molding composition  
 IN Chisholm, Bret Ja  
 PA General Electric Company, USA  
 SO Eur. Pat. Appl., 12 pp.  
 CODEN: EPXXDW  
 DT Patent  
 LA English  
 IC ICM C08L067-02  
 ICS C08L069-00  
 ICI C08L067-02, C08L069-00; C08L069-00, C08L067-02; C08L067-02, C08L069-00,  
 C08L051-04; C08L069-00, C08L067-02, C08L051-04  
 CC 37-6 (Plastics Manufacture and Processing)  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 933395	A2	19990804	EP 1999-300223	19990114
	EP 933395	A3	19991103		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	SG 74114	A1	20000718	SG 1999-95	19990114
	JP 11279389	A2	19991012	JP 1999-16457	19990126
PRAI	US 1998-14828	A	19980128		
AB	A thermoplastic resin having enhanced glass transition temp., higher heat distortion temp., and uniform appearance comprises .apprx.10-90% of a polyester naphthanoate and .apprx.10-90% of an essentially amorphous polyester <b>polycarbonate</b> prepd. from a dicarboxylic acid and a dihydric phenol; and a quencher consisting of a phosphite having an acidic OH group, acidic <b>phosphate</b> salts, polyacid <b>pyrophosphates</b> with acidic salts, <b>phosphates</b> of Group IB and Group IIB metals, and phosphorus oxo-acids.				
ST	polyester <b>polycarbonate</b> blend thermoplastic molding; naphthalenedicarboxylate polyester <b>polycarbonate</b> blend				
IT	Molded plastics, uses Polymer blends RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses) (Polyester <b>polycarbonate</b> molding compn.)				
IT	Polyesters, uses Polyesters, uses RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses) ( <b>polycarbonate</b> -; Polyester <b>polycarbonate</b> molding compn.)				
IT	<b>Polycarbonates</b> , uses <b>Polycarbonates</b> , uses RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses) (polyester-; Polyester <b>polycarbonate</b> molding compn.)				
IT	Polyesters, uses RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses) (polymer blends; Polyester <b>polycarbonate</b> molding compn.)				
IT	Plastics, uses RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses) (thermoplastics; Polyester <b>polycarbonate</b> molding compn.)				
IT	2082-79-3, Irganox 1076 29598-76-3, Seenox 412S RL: MOA (Modifier or additive use); USES (Uses) (Polyester <b>polycarbonate</b> molding compn.)				
IT	24936-68-3, Bisphenol a <b>polycarbonate</b> , uses 24968-11-4 24968-12-5, Polybutylene terephthalate 25037-45-0 25038-59-9, uses 25053-09-2, Methyl methacrylate-butadiene-styrene copolymer 25230-87-9 26062-94-2, Polybutylene terephthalate 28605-06-3				

L18 ANSWER 27 OF 46 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1999:603562 CAPLUS  
 DN 131:229601  
 TI Fire- and heat-resistant **polycarbonate**-polyester blend  
 compositions containing cyclic **phosphates** and inorganic salts  
 IN Sato, Takahiro; Taketani, Yutaka  
 PA Teijin Chemicals Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 9 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM C08L069-00  
 ICS C08K013-02; C08L069-00; C08L067-02; C08L027-12; C08K005-523;  
 C08K003-26; C08K003-32  
 CC 37-6 (Plastics Manufacture and Processing)  
 FAN.CNT 1

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	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11256021	A2	19990921	JP 1998-56773	19980309
PRAI	JP 1998-56773		19980309		

AB Title compns. comprise (A) **polycarbonates** 96-40, (B) polyesters 1-55, (C) cyclic **phosphates** 2-20, (D) inorg. salts selected from **carbonates** and **phosphates** of alk. earth metals .ltoreq.10, and (E) fluoropolymers 0.01-3 parts, where A + B + C + D + E = 100 parts and mol ratios of P atoms (from component C) to D .gtoreq.0.02. Thus, a compn. comprising Panlite L 1225WP 55.7, TR 8580 30, di-Ph pentaerythritol **diphosphate** (prepn. given) 12, Polyflon FA 500 0.3, and calcium **carbonate** 2 parts gave flammability (UL 94) V-0 and deflection temp. (JIS K 7207, 18.5 kg/cm2-load) 104.degree..  
 ST fire heat resistant **polycarbonate** polyester blend; cyclic **phosphate** fireproofing agent **polycarbonate** polyester; **carbonate** alk earth metal fireproofing compn; fluoropolymer Polyflon fireproofing compn; phenyl pentaerythritol **phosphate** fireproofing Panlite compn; calcium **carbonate** fireproofing compn  
 IT Polyesters, uses  
 RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
 (blends with **polycarbonates**; fire- and heat-resistant **polycarbonate**-polyester blend compns.)  
 IT **Polycarbonates**, uses  
 RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
 (blends with polyesters; fire- and heat-resistant **polycarbonate** -polyester blend compns.)  
 IT Alkaline earth salts  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (**carbonates** or **phosphates**; fire- and heat-resistant **polycarbonate**-polyester blend compns.)  
 IT Fireproofing agents  
 Heat-resistant materials  
 (fire- and heat-resistant **polycarbonate**-polyester blend compns.)  
 IT Fluoropolymers, uses  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (fire- and heat-resistant **polycarbonate**-polyester blend compns.)  
 IT Polymer blends  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (**polycarbonate**-polyester; fire- and heat-resistant **polycarbonate**-polyester blend compns.)  
 IT 3812-32-6, **Carbonate**, uses  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (alk. earth metal salts; fire- and heat-resistant **polycarbonate** -polyester blend compns.)  
 IT 9020-32-0, Polyethylene naphthalate 9020-73-9 24968-12-5, TRB-J 25038-59-9, TR 8580, uses 26062-94-2 51806-50-9,

1,4-Butanediol-naphthalenedicarboxylic acid copolymer, sru 52309-38-3  
 RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
 (blends with **polycarbonates**; fire- and heat-resistant **polycarbonate**-polyester blend compns.)

IT 24936-68-3, Panlite L 1225WP, uses 25037-45-0, Bisphenol A-carbonic acid copolymer  
 RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)  
 (blends with polyesters; fire- and heat-resistant **polycarbonate**-polyester blend compns.)

IT 14265-44-2, **Phosphate**, uses  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (cyclic esters or alk. earth metal salts; fire- and heat-resistant **polycarbonate**-polyester blend compns.)

IT 471-34-1, Calcium **carbonate**, uses 513-77-9, Barium **carbonate** 546-93-0, Magnesium **carbonate** 7758-87-4, Calcium **phosphate** 9002-84-0, Polyflon FA 500  
 RL: MOA (Modifier or additive use); USES (Uses)  
 (fire- and heat-resistant **polycarbonate**-polyester blend compns.)

IT 55120-33-7P, Diphenyl pentaerythritol **diphosphate** 97994-13-3P  
 239802-94-9P  
 RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)  
 (fireproofing agents; fire- and heat-resistant **polycarbonate**-polyester blend compns.)

IT 770-12-7P, Phenyl **dichlorophosphate** 18350-98-6P  
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)  
 (in prepn. of cyclic **phosphates** for fire- and heat-resistant **polycarbonate**-polyester blend compns.)

IT 98-54-4, 4-tert-Butylphenol 108-95-2, Phenol, reactions 115-77-5, Pentaerythritol, reactions 576-26-1, 2,6-Dimethylphenol 10025-87-3, Phosphorus oxychloride  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (in prepn. of cyclic **phosphates** for fire- and heat-resistant **polycarbonate**-polyester blend compns.)

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RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)

(polymer blends; Polyester **polycarbonate** molding compn.)

L17 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN  
 AN 1987:637778 CAPLUS  
 DN 107:237778  
 TI Poly(ethylene naphthalenedicarboxylate)/polycarbonate blends  
 AU Anon.  
 CS USA  
 SO Research Disclosure (1987), 283, 667-9  
 CODEN: RSDSBB; ISSN: 0374-4353  
 DT Journal  
 LA English  
 CC 37-3 (Plastics Manufacture and Processing)  
 Section cross-reference(s): 38  
 AB Blends of poly(ethylene 2,6-naphthalenedicarboxylate) (I) or its  
 copolyesters with 1-99 % polycarbonates were prep'd. Impact modifiers such  
 as EPR or EPDM rubber could also be in the blends. Films, fibers, molded  
 objects, and melt blown containers could be made from pellet blends or  
 from repelletized melt blends. Thus, I (inherent viscosity 0.72  
 dL/g)-Merlon M40 polycarbonate blends were extruded into rods and cut into  
 1/8-in. pellets. Blow-molded bottles prep'd. from the blends did not  
 distort when filled with boiling water and had good barrier properties  
 with regard to permeation by O and CO<sub>2</sub>.  
 ST naphthalenedicarboxylate polyester blend polycarbonate; bottle polyester  
 polycarbonate blend; oxygen permeability polyester polycarbonate blend;  
 carbon dioxide permeability polyester blend  
 IT Permeability and Permeation  
 (of carbon dioxide and oxygen, through polycarbonate-polyester blends)  
 IT Polyesters, preparation  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (polycarbonate blends, prepn. and properties of)  
 IT Bottles  
 (polycarbonate-polyester blends for)  
 IT Polycarbonates, preparation  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (polyester blends, prepn. and properties of)  
 IT Rubber, synthetic  
 RL: USES (Uses)  
 (EPDM, impact modifiers Uniroyal X372, for polycarbonate-polyester  
 blends)  
 IT 124-38-9, Carbon dioxide, properties 7782-44-7, Oxygen, properties  
 RL: PRP (Properties)  
 (permeation of, through polycarbonate-polyester blends)  
 IT 24968-11-4P 25230-87-9P, Ethylene glycol-2,6-naphthalenedicarboxylic  
 acid copolymer  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (polycarbonate blends, prepn. and properties of)  
 IT 24936-68-3P, Merlon M40, properties  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (polyester blends with Merlon M40, prepn. and properties of)  
 IT 25971-63-5P  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (polyester blends, prepn. and properties of)  
 IT 74-85-1  
 RL: USES (Uses)  
 (rubber, EPDM, impact modifiers Uniroyal X372, for polycarbonate-  
 polyester blends)

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